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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,584	05/23/2006	Hideo Tashiro	2870-0319PUS1	6678
	7590 06/07/200 ART KOLASCH & BI	EXAMINER		
PO BOX 747		LAM, ANN Y		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			1641	
			NOTIFICATION DATE	DELIVERY MODE
			06/07/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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		Application No.	Applicant(s)
Office Action Summary		10/560,584	TASHIRO ET AL.
		Examiner	Art Unit
		Ann Y. Lam	1641
Period f	The MAILING DATE of this communication for Reply	appears on the cover sheet w	vith the correspondence address
A SH WHII - Exte afte - If N - Fail Any	HORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING ensions of time may be available under the provisions of 37 CFR or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by state or reply received by the Office later than three months after the mand patent term adjustment. See 37 CFR 1.704(b).	C DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MOI atute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status			
1)⊠	Responsive to communication(s) filed on 33	<u>1507</u> .	
2a) <u></u> ☐	This action is FINAL . 2b)⊠ T	his action is non-final.	
3)	•		
	closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.E	D. 11, 453 O.G. 213.
Disposit	tion of Claims		
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-30</u> is/are pending in the applicating 4a) Of the above claim(s) <u>19-30</u> is/are with declaim(s) <u>12-18</u> is/are allowed. Claim(s) <u>1,3-8,10 and 11</u> is/are rejected. Claim(s) <u>2 and 9</u> is/are objected to. Claim(s) <u>are subject to restriction and 11</u>	lrawn from consideration.	
Applicat	tion Papers		
9)🖾	The specification is objected to by the Exam	iner.	
10)⊠	The drawing(s) filed on 23 May 2006 is/are:	a)⊠ accepted or b)□ obje	cted to by the Examiner.
	Applicant may not request that any objection to t	• • • • • • • • • • • • • • • • • • • •	• •
11)	Replacement drawing sheet(s) including the corn. The oath or declaration is objected to by the		
Priority :	under 35 U.S.C. § 119		·
a)	Acknowledgment is made of a claim for fore All b Some * c None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bure See the attached detailed Office action for a l	ents have been received. ents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachmer	nt(s) ce of References Cited (PTO-892)	4) 🔲 Intentious	Summary (PTO-413)
2) Notice 3) Infor	ce of Neterences Cited (PTO-092) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 1-/11/06, 12/13/05.	Paper No((s)/Mail Date Informal Patent Application

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DETAILED ACTION

Election/Restrictions

Applicant's election of Group I (claims 1-18) in the reply filed on March 15, 2007 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 19-30 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention.

Specification

The disclosure is objected to because of the following informalities: there is no brief description of the drawings for figure 8a and 8c and 10a-c (there is a second set of 10a-c). (A brief description of figure "8" for example is insufficient.)

Appropriate correction is required.

Claim Objections

Claim 1 is objected to because of the following informalities. Applicants' recite in lines 6-7, "at least the surface of the substrate around the protruding spot part, the lateral surface of the protruding spot part". The language is confusing as from what the

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surface parts. Appropriate correction is required. (Examiner interprets the language to mean that the surface around the protruding parts from the other surfaces around the protruding spot, and the lateral surface of the protruding spot part from other lateral surfaces of the protruding spot.)

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3-8, 10 and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Agrawal et al., 7,195,872.

As to claims 1, 3, 10 and 11, Applicants claim a substrate comprising one or more spots for immobilizing a biomolecule in which said spot protrudes from the surface of the substrate and has a flat surface for spotting on the top thereof, and the surface of the substrate around the protruding spot part, the lateral surface of the protruding spot part and the flat surface for spotting are comprised of an electrically conductive substance.

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Agrawal et al. teach a substrate having a textured surface to increase the surface area, wherein the textured surface comprises pillars (20 in fig. 1B and 20' in fig. 2B) to which biomolecules such as DNA bind (col. 22, lines 64-67). Moreover, as to claim 1, the immobilized biomolecule is not recited as being part of the claimed invention, and thus the embodiment in figure 8 of Agrawal et al. disclosing flat protruding surfaces (801) that are separated from each other and are capable of having biomolecules be immobilized thereon also disclose the invention of claim 1.

As to claim 3, 4, 5, 6, Agrawal et al. disclose that the substrate has a layer of conductive material such as gold (col. 33, lines 45-55 and 65-67).

As to claim 7, Agrawal et al. teach that the pillars are 0.1 to about 100 microns (col. 16, lines 10-13.)

As to claim 8, the claimed angle is disclosed in the embodiment in figure 8 of Agrawal et al.

Allowable Subject Matter

Claims 2 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 12-18 are allowed.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ann Y. Lam whose telephone number is 571-272-0822. The examiner can normally be reached on Mon.-Fri. 10-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ANN YEN LAM
PATENT EXAMINER